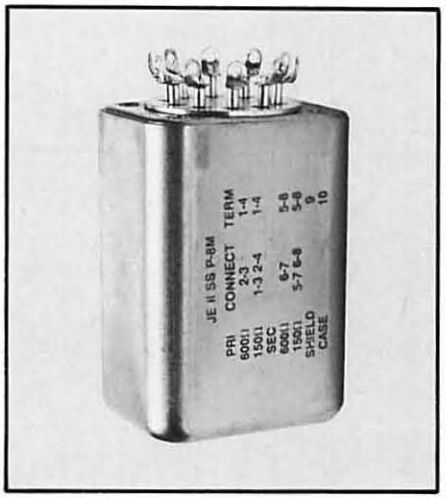
Data Sheet

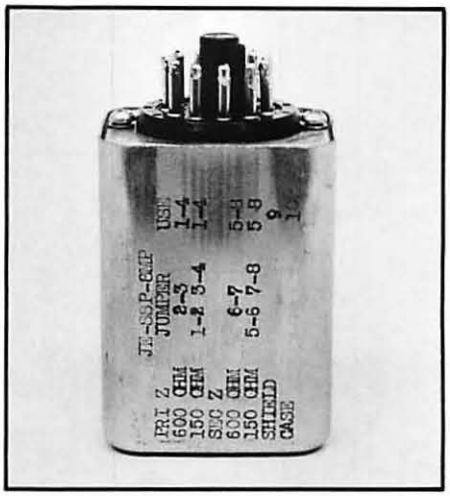
jensen transformers
By REICHENBACH ENGINEERING

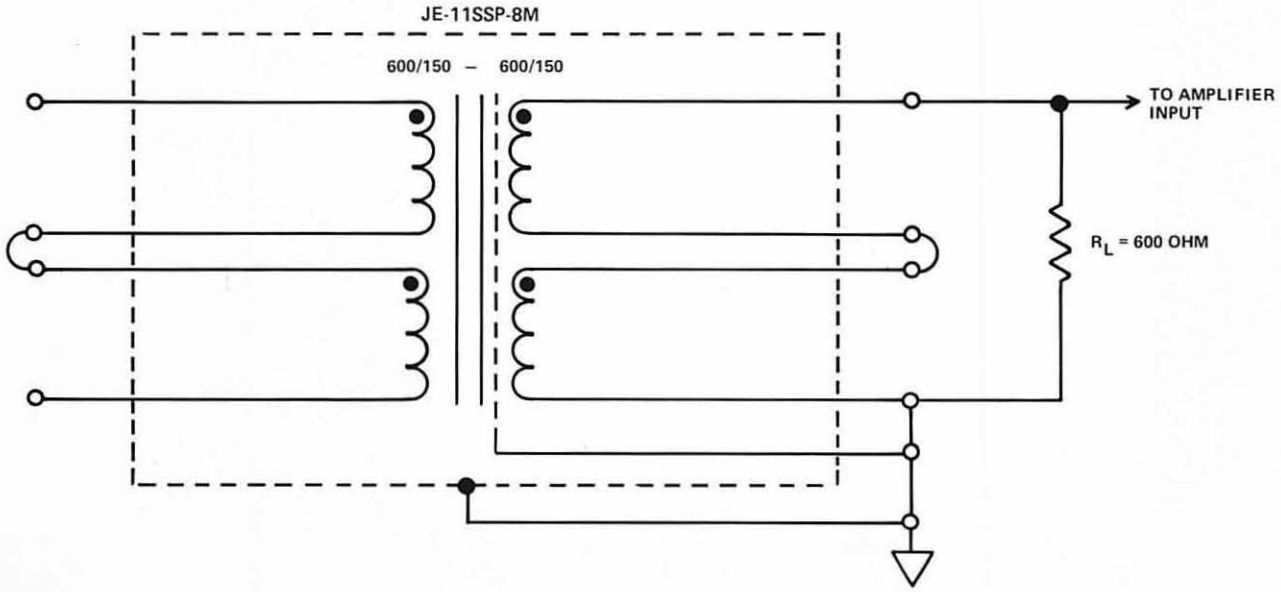
JE-11SSP-8M
LINE INPUT TRANSFORMER

The JE-11SSP-8M is a 600/150 – 600/150 ohm (split winding) line input transformer for low input impedance circuits. It handles levels to +23dBv. Re: 0.775v @ 20Hz. Below saturation, the 20Hz THD is less than 0.035%. The high grade Nickel alloy core yields very low distortion even with source impedances up to several hundred ohms. The bandwidth is 120kHz with <3% overshoot.

The standard package has solder terminals and four threaded inserts in each end for mounting. An 11 pin octal-type plug version is available.



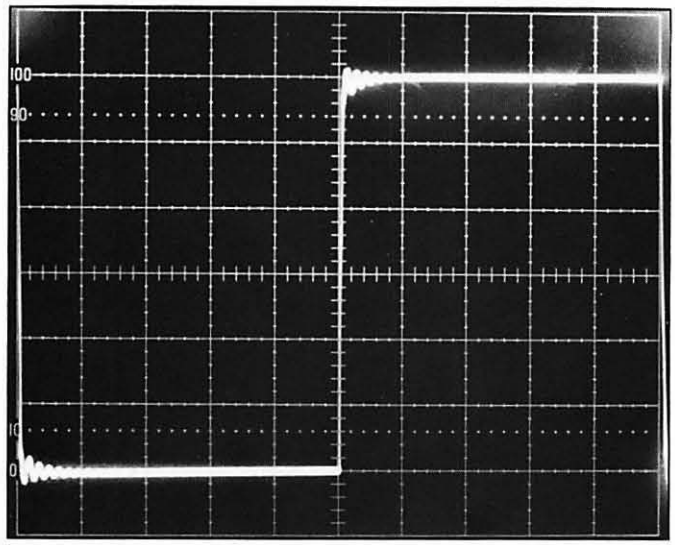




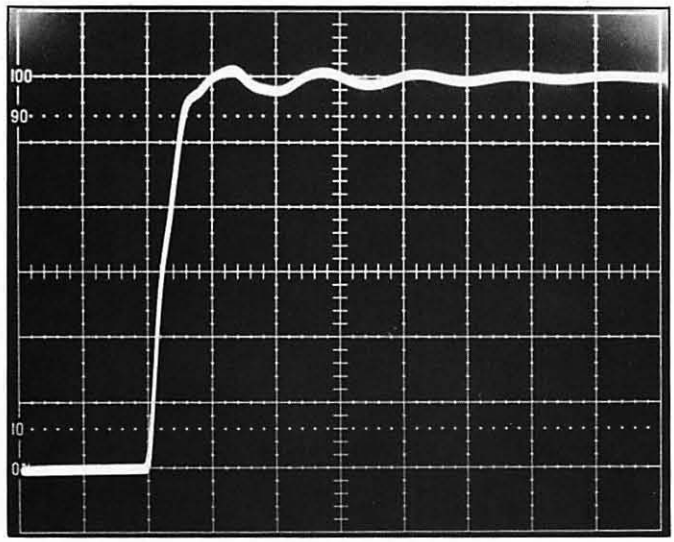
REGARDING THE OSCILLOSCOPE PHOTOS

Actual oscilloscope photos were made from a Tektronix Model 453A (certified calibration).

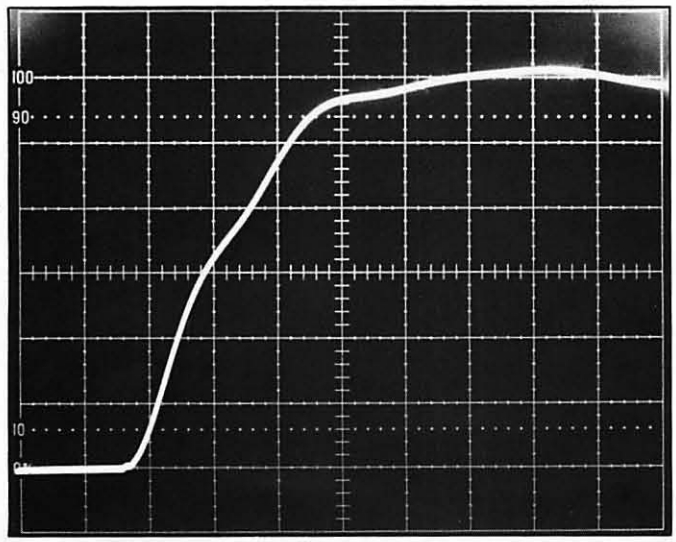
2kHz Square Wave



50μS/division



5μS/division

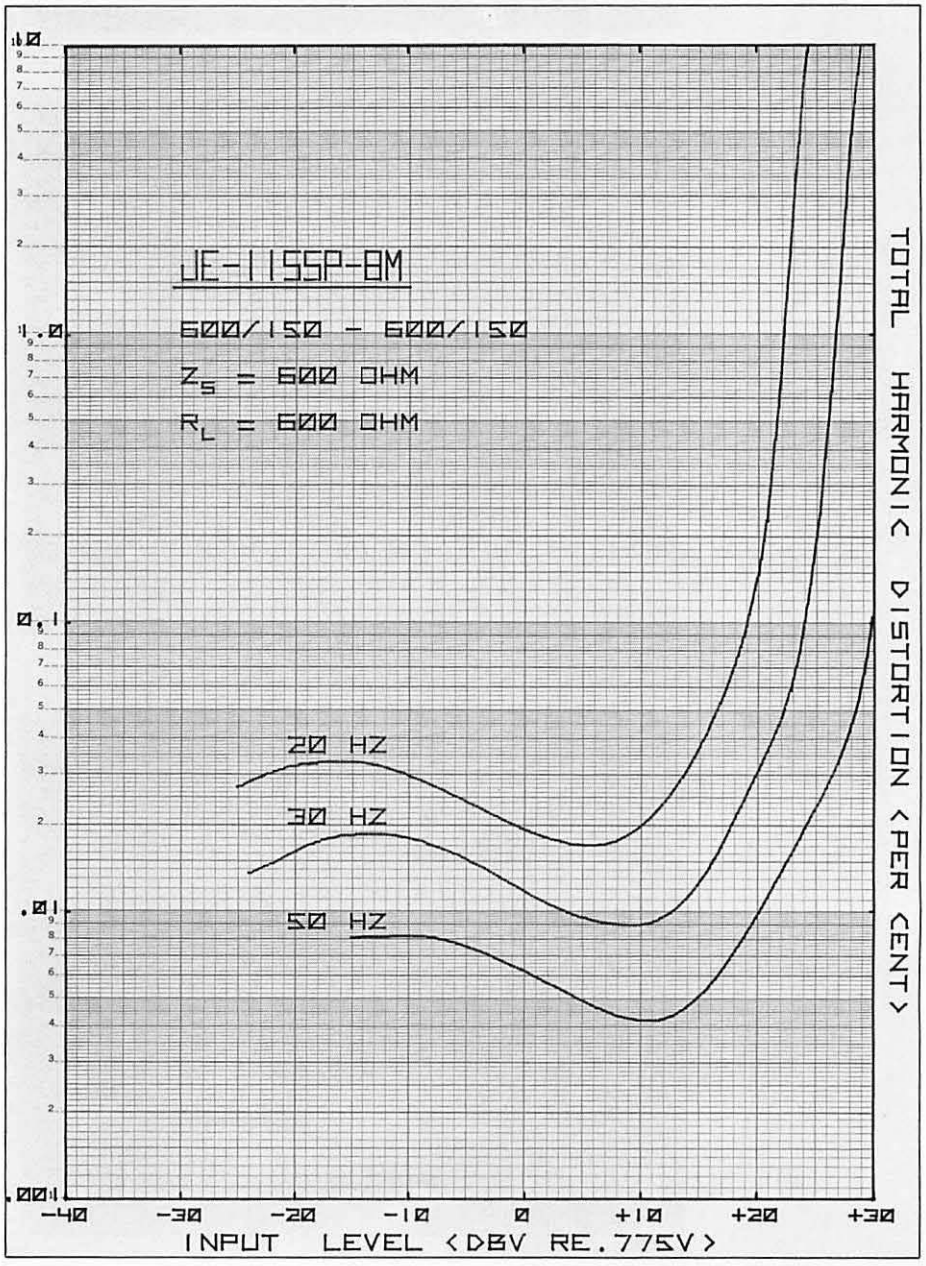


1μS/division

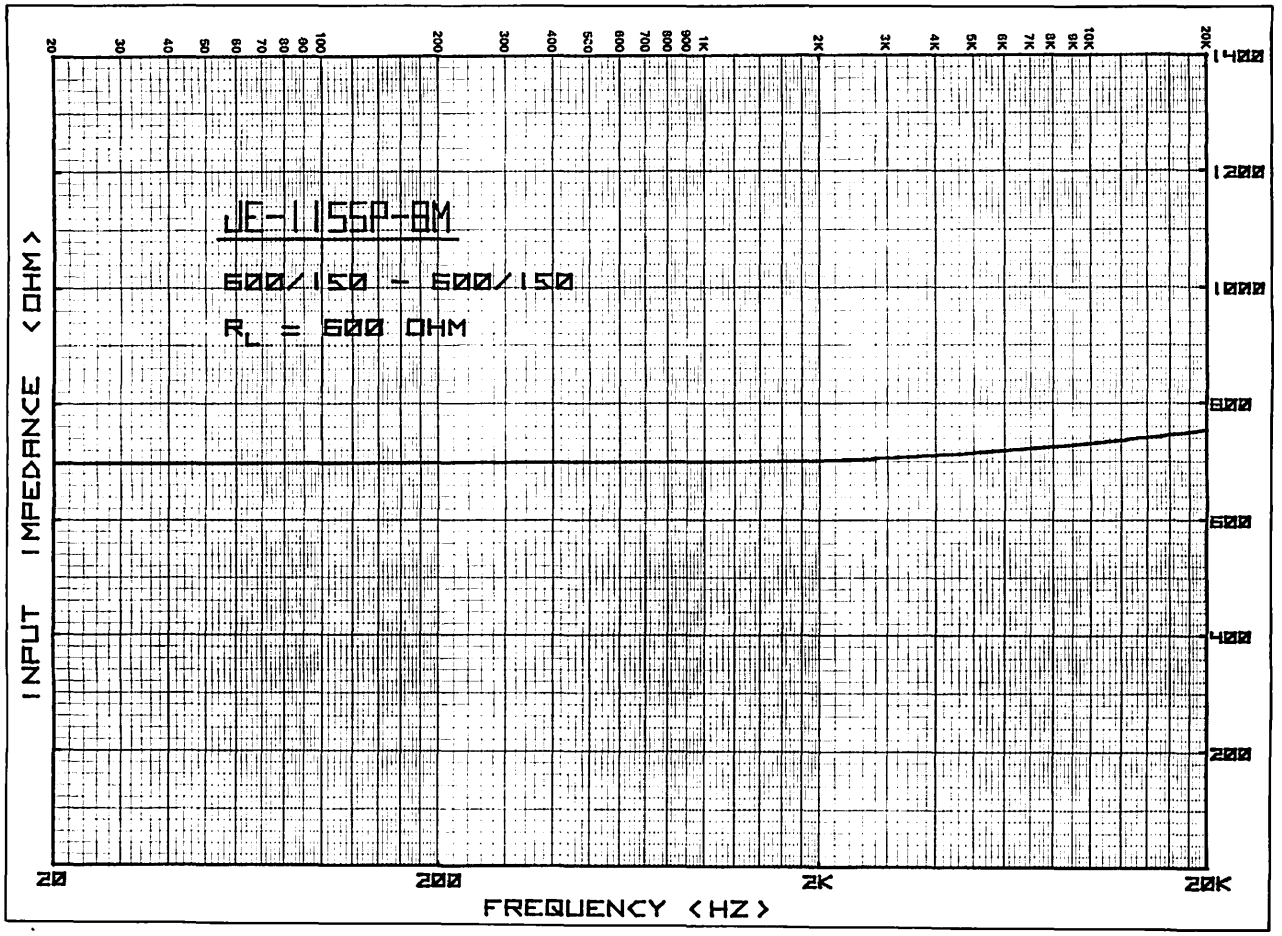
All curves were generated by a Hewlett-Packard 9815A/9862A programmable calculator/ plotter.

All calculations were either derived from or verified by actual measurements. The distortion curves were generated by a polynominal curve fit program using measurements by a Sound Technology 1710A analyzer. Verified accuracies are on the order of one pen line width.

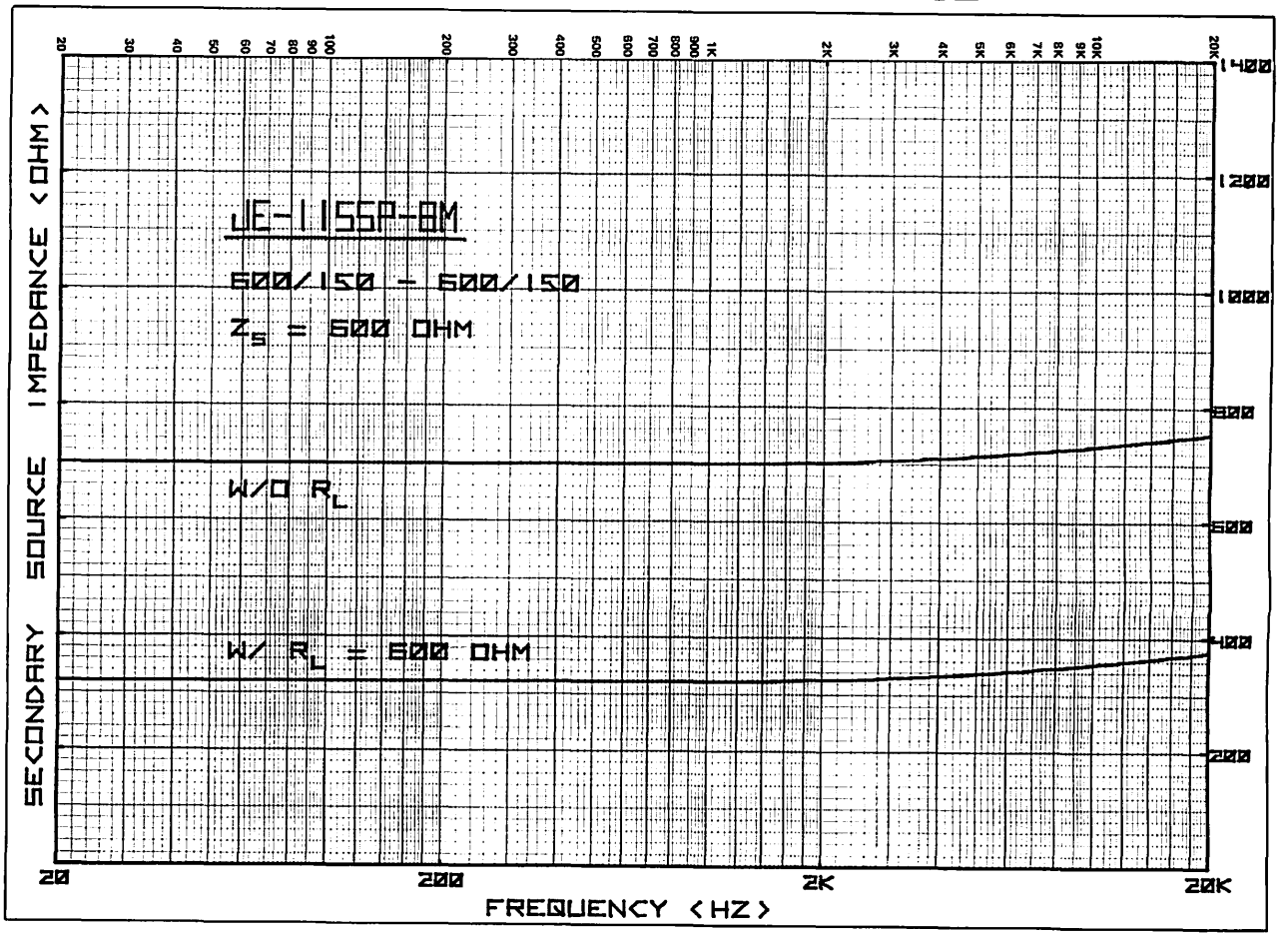
DISTORTION



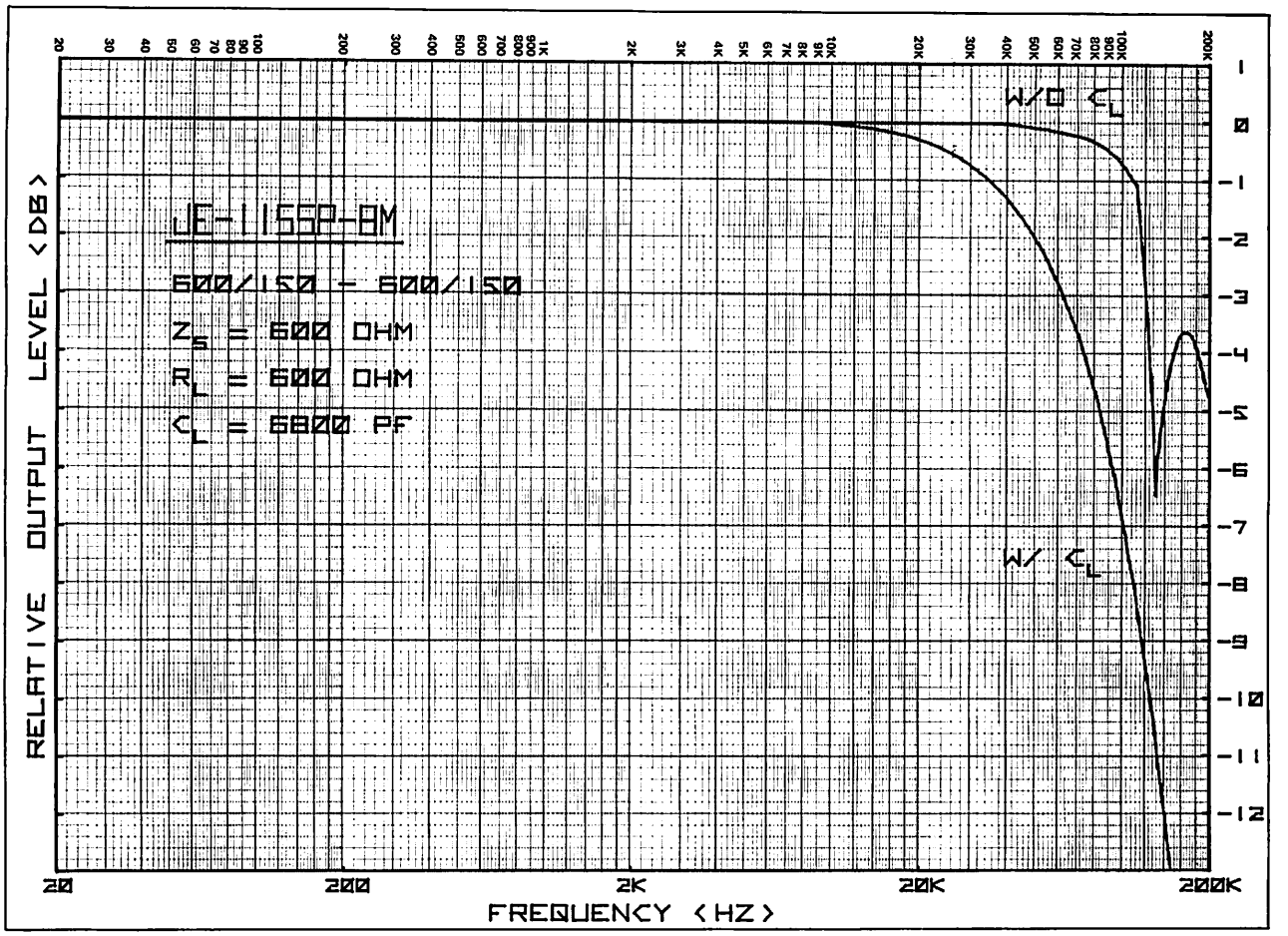
INPUT IMPEDANCE



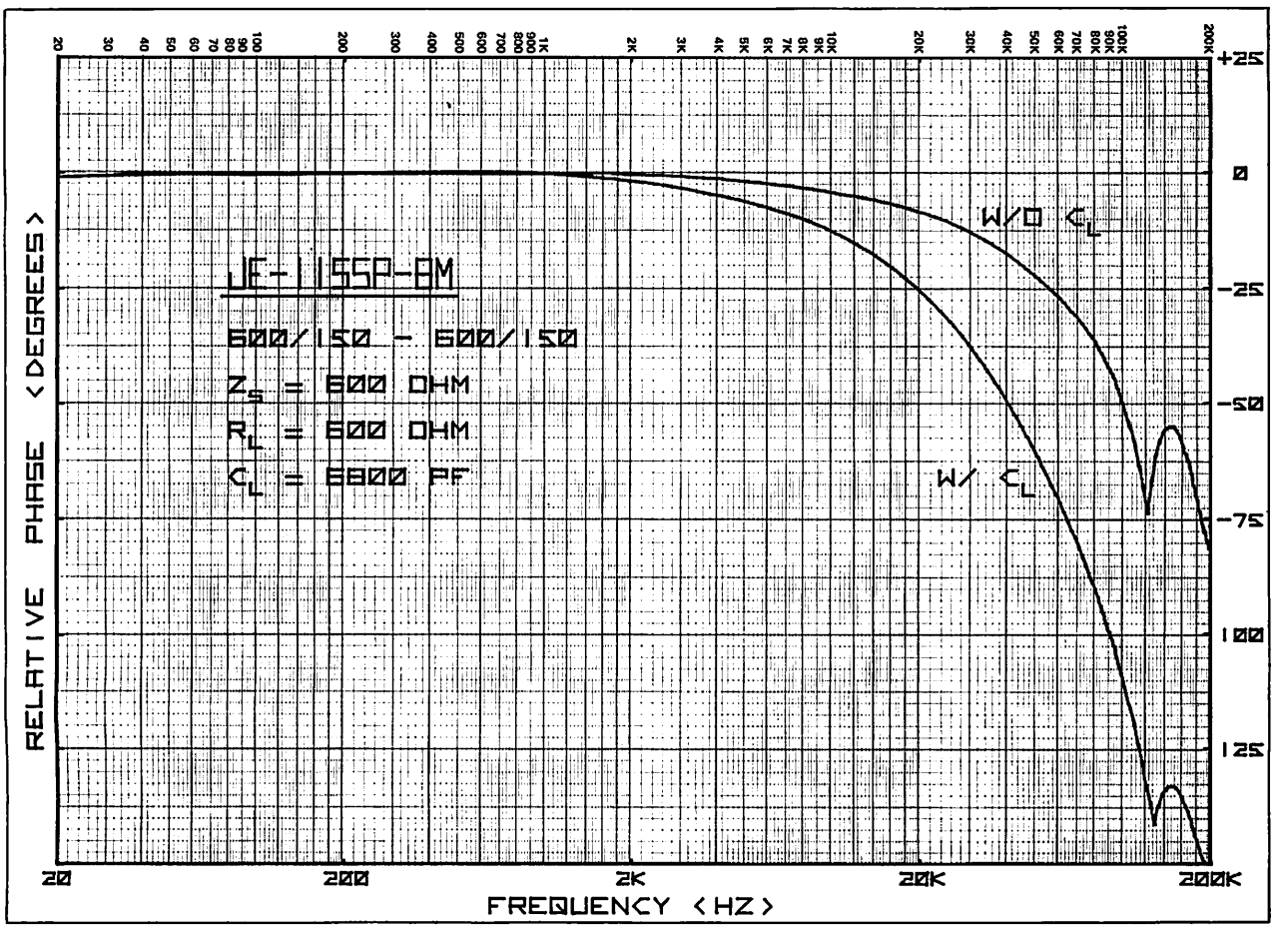
SECONDARY SOURCE IMPEDANCE



FREQUENCY RESPONSE



PHASE RESPONSE



JE-11SSP-8M GENERAL CHARACTERISTICS

Turns Ratio
1:1
Impedance Ratio
600/150 – 600/150
Primary Source Impedance
600 ohms or less
Secondary Load Resistor
600 ohms
Faraday Shield
Separate connection
Magnetic Shield
30dB, separate case connection
Maximum Input Level @ 20Hz
+23dBv (Re: 0.775v)

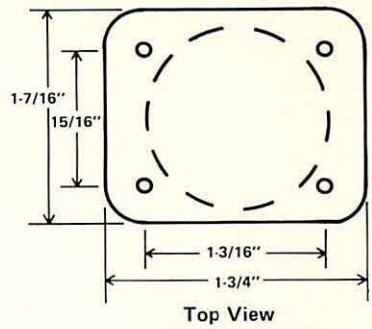
PHYSICAL CHARACTERISTICS

Package
Rectangular mu-metal cans for octal plug and terminal version.
Termination
11 pin octal type plug, or 10 solder terminals
Dimensions
Refer to adjacent dimensional drawings.
Mounting
Four #4-40 inserts on top and bottom of terminal version.

TYPICAL PERFORMANCE

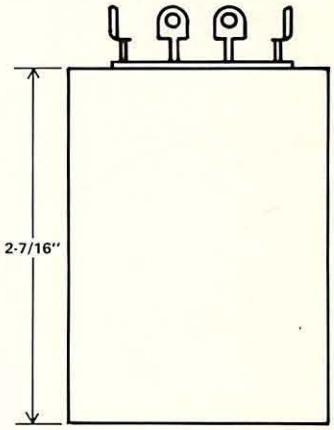
Insertion Loss
–0.7dB
Input Impedance
@ 1kHz 701 ohms
@ 10kHz 732 ohms
Secondary Source Impedance
@ 1kHz 701 ohms
@ 10kHz 732 ohms
Frequency Response (Re: 1kHz)
@ 20Hz –0.03dB
@ 20kHz 0dB (ref.)
Bandwidth
@ –3dB 120kHz
Phase Response
@ 20kHz –9 deg
Rise Time
(10%-90%) 2.5μS
Overshoot
<3%
Total Harmonic Distortion (Below Saturation)
0.035% @ 20Hz
0.018% @ 30Hz
0.008% @ 50Hz
Input Level @ 1% Saturation (dBv Re: 0.775v)
+22dBv @ 20Hz
+26dBv @ 30Hz
+31dBv @ 50Hz
Common-Mode Voltage (maximum)
>200v peak
Common-Mode Rejection Ratio
>85dB @ 1kHz
>65dB @ 10kHz

MECHANICAL DESIGNERS: Dimensions are approximate. Please have a transformer in hand when laying out panel cutouts.

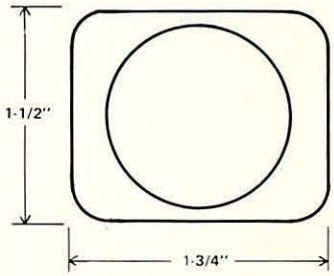


Top View

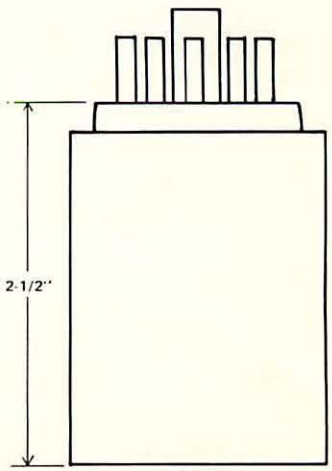
Mounting Screws: Screw size 4-40. Maximum length 1/4" + panel thickness.



Side View



Top View



Side View

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(Visitors by Appointment Only)